

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275527

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2733.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

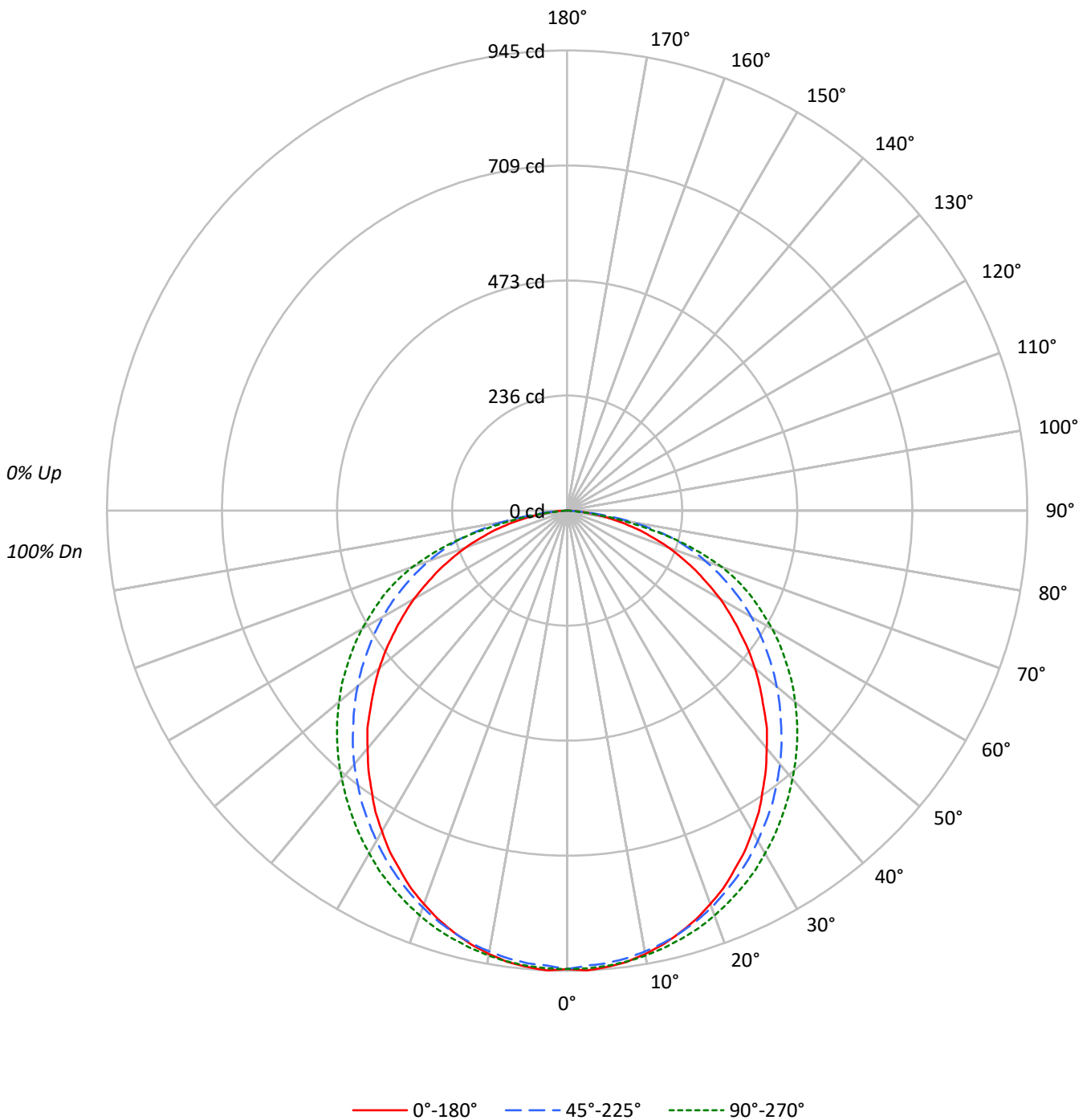
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2534	2534	2534
5°	2542	2520	2535
10°	2526	2513	2536
15°	2499	2501	2535
20°	2462	2483	2534
25°	2416	2459	2532
30°	2363	2433	2526
35°	2300	2412	2525
40°	2239	2389	2528
45°	2171	2363	2542
50°	2107	2352	2559
55°	2027	2344	2582
60°	1955	2348	2617
65°	1855	2355	2658
70°	1740	2374	2656
75°	1577	2396	2402
80°	1294	2069	1709
85°	960	979	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	254.5	9.3
20°-30°	383.4	14.0
30°-40°	460.1	16.8
40°-50°	479.5	17.5
50°-60°	443.9	16.2
60°-70°	358.7	13.1
70°-80°	218.7	8.0
80°-90°	45.1	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	727.0	26.6
0°-40°	1187.0	43.4
0°-60°	2110.5	77.2
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	941	938	933	940	938	89
15°	897	898	898	910	910	253
25°	814	818	828	849	853	375
35°	700	711	734	761	768	439
45°	570	588	621	656	668	441
55°	432	455	500	539	550	387
65°	291	320	370	407	417	288
75°	152	185	230	234	231	159
85°	31	46	32	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.5	941.5	941.5	941.5	941.5
2.5°	945.2	942.1	935.4	942.1	940.9
5°	940.9	938.5	933.0	939.7	938.5
7.5°	934.8	932.4	927.5	935.4	934.2
10°	924.5	923.2	919.6	928.7	928.1
12.5°	912.3	911.7	909.8	920.2	919.6
15°	897.0	897.7	897.7	909.8	909.8
17.5°	880.0	881.2	883.6	897.0	898.9
20°	859.9	862.3	867.2	882.4	884.9
22.5°	839.1	841.0	848.3	866.6	869.0
25°	813.6	818.4	828.2	848.9	852.6
27.5°	789.2	793.4	806.8	828.2	834.3
30°	760.5	767.2	783.1	806.2	812.9
32.5°	733.1	740.4	758.7	785.5	791.6
35°	700.2	711.2	734.3	761.1	768.5
37.5°	670.3	680.7	706.9	736.2	744.7
40°	637.4	650.2	680.1	711.2	719.7
42.5°	607.0	619.2	651.5	683.1	694.7
45°	570.4	587.5	621.0	655.7	667.9
47.5°	536.9	553.9	592.3	629.5	640.5
50°	503.4	521.6	561.9	600.3	611.2
52.5°	468.6	488.1	531.4	569.8	582.6
55°	432.1	454.6	499.7	538.7	550.3
57.5°	397.3	420.5	468.6	508.2	519.8
60°	363.2	387.0	436.3	474.1	486.3
62.5°	325.4	353.5	404.6	441.8	451.0
65°	291.3	319.9	369.9	407.1	417.4
67.5°	255.3	286.4	336.4	370.5	380.3
70°	221.2	253.5	301.7	333.3	337.6
72.5°	184.6	217.6	266.3	286.4	286.4
75°	151.7	185.3	230.4	234.0	231.0
77.5°	115.8	153.0	182.2	174.9	167.6
80°	83.5	120.1	133.5	120.1	110.3
82.5°	56.1	87.1	80.4	64.0	56.7
85°	31.1	46.3	31.7	17.7	12.8
87.5°	11.6	10.4	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)